

55. The antisense oligonucleotide of claim 53, which possesses a complementary structure to at least a portion of the nucleic acid sequence in SEQ ID NO: 2.

56. The antisense oligonucleotide of claim 53, which possesses a size ranging from 7 to 40 nucleotides.

57. The antisense oligonucleotide of claim 53, which inhibits the proliferation of a human breast cancer cell line.

58. A method for inhibiting the proliferation of a malignant cell line that expresses the PBR gene, comprising introducing into said cell line an antisense oligonucleotide according to claim 53 in an amount effective to inhibit cell proliferation.

59. A method for inhibiting the proliferation of a malignant cell line that expresses the PBR gene, comprising introducing into said cell line an antisense oligonucleotide according to claim 54 in an amount effective to inhibit cell proliferation.

60. A method for inhibiting the proliferation of a malignant cell line that expresses the PBR gene, comprising introducing into said cell line an antisense oligonucleotide according to claim 55 in an amount effective to inhibit cell proliferation.

61. A method for inhibiting the proliferation of a malignant cell line that expresses the PBR gene, comprising introducing into said cell line an antisense oligonucleotide according to claim 56 in an amount effective to inhibit cell proliferation.